

Product datasheet for **SC306792**

UNC45B (NM_173167) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC45B (NM_173167) Human Untagged Clone
Tag:	Tag Free
Symbol:	UNC45B
Synonyms:	CMYA4; CTRCT43; MFM11; SMUNC45; UNC-45B; UNC45
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_173167 edited
 ATGGCAGAGGTGGAAGCGGTACAGCTGAAGGAGGAAGGAAACCGGCATTTCCAGCTCCAG
 GACTACAAGGCCGCCACAATAGCTACAGCCAGGCCCTGAAGCTGACCAAGGACAAGGCC
 CTGCTGGCCACGCTTTATCGGAACCGGGCAGCCTGTGGCCTGAAAACGGAGAGCTACATC
 CAGGCAGCTTCAGATGCCTCCAGAGCCATCGACATCAACTCCTCGGACATCAAGGCTCTG
 TATCGGCGATGCCAGGCACTGGAGCACCTGGGGAAGCTGGACCAGGCCTCAAAGACGTG
 CAGCCTTGTGCCACCCTCGAGCCACGGAACAGAACTTCCAGGAGATGCTGAGGAGACT
 AACACCAGCATTAGGAGAAGCTCCGAGTGCAGTTCTCCACAGACTCGAGGGTACAGAAG
 ATGTTTGAGATCCTCTTGATGAAAACAGTGAGGCTGATAAGCGGAAAAAGGCTGCCAAC
 AATCTCATTGTCTAGGCCGTGAGGAAGCAGGGGCTGAGAAGATCTTCCAGAACAATGGA
 GTAGCCTTGCTACTGCAGCTTCTGGACACTAAGAAGCCTGAGCTGGTGTGGCTGCAGTG
 CGGACCCTGTGGGCATGTGCAGCGGCCACCAAGCCAGAGCCACAGTGATTCTGCATGCA
 GTGCGGATAGACCGAATCTGTAGCCTCATGGCCGTGGAGAATGAGGAGATGTCTCTGGCT
 GTCTGCAACCTGTCCAAGCCATCATTGACTCCTTGTCTGGGGAGGACAAGCGGGAGCAT
 CGAGGGAAGGAGGAGGCCCTGGTTCTAGACACCAAGAAGGACCTGAAGCAGATCACCAGC
 CACCTGTGGACATGCTAGTCAGCAAGAAGGTGTCTGGCCAGGGCAGGGATCAGGCGCTG
 AACCTGTCAATAAGAATGTTCCAGGAAGGACCTTGCCATTCATGACAACCTCACGTACC
 ATCTATGTGGTGGATAATGGTCTGAGGAAGATCCTGAAGGTTGTGGGGCAGGTTCCAGAT
 CTGCCATCCTGCCTGCCCTGACTGACAACACCCCGCATGCTGGCCTCTATCCTCATCAAC
 AAGCTCTATGATGACCTGCGCTGTGACCCGAGCGCGATCACTCCGCAAGATCTGTGAG
 GAATATATCACGGGCAAGTTTGACCCCCAGGACATGGACAAGAAGTTGAATGCCATCCAG
 ACAGTGTGAGGATCCTGCAGGGCCCCCTTGACCTGGCAACACAGCTGCTGGGACTGAAA
 GGTGTGATGGAGATGATGGTGGCACTATGTGGCTCAGAGCGCGAGACGGACCAGCTGGTG
 GCCGTGGAGGCCCTCATCCATGCCTCCACGAAGCTCAGCCGCGCCACCTTCATCACC
 AATGGAGTGTACTGCTCAAACAGATCTACAAGACCACCAAAAAATGAGAAGATCAAGATC
 CGCACACTGGTGGGACTCTGTAAGCTCGGCTCTGCAGGTGGCACAGACTACGGTCTCAGG
 CAGTTTGCGAAGGGTCGACAGAAAACTGGCCAAACAGTGTGCGAAGTGGCTGTGCAAT
 ATGTCCATAGACACTCGGACCCGACGCTGGGCAGTGGAGGGCCTGGCCTACCTCACGCTG
 GACGCTGATGTGAAGGACGACTTGTCCAGGACGTCCTGCCCTGCAGGCCATGTTTGAG
 CTGGCCAAG: : : : : ACCAGTGACAAGACCATCCTGTACTCGGTGGCCACCACCCTGGTG
 AACTGCACCAACAGCTACGATGTCAAGGAGGTCAATCCAGAGCTTGTCCAGCTCGCCAAG
 TTCTCCAAGCAGCATGTGCCGAGGAACACCCCAAGGACAAGAAGGACTTTATAGACATG
 CGGGTGAAGCGGCTTCTGAAGGCGGGTGTATCTCTGCCCTGGCTTGCATGGTGAAGCA
 GATAGTGCCATCCTCACTGACCAGACCAAGGAGCTGCTGGCCAGGGTATTCTGGCACTG
 TGTGACAACCCAAAGGACCGAGGCACCATTTGTGGCTCAAGGTGGTGGCAAGGCCCTGATT
 CCCCTGGCTTTGGAGGGCACAGATGTGGCAAGGTGAAGGCAGCCACGCTCTAGCAAAG
 ATCGCTGCTGTCTCCAATCCGGACATTTGCTTTCTGGGAGCGGGTGTATGAGGTGGTG
 CGGCCCCTTGTAAGACTTTGGACACACAGAGGGATGGGCTTCAAGACTATGAGGCTCTC
 CTAGGCCACCAACCTGTCTGGCGGAGTGACAACTCCGGCAGAAGATCTTTAAGGAG
 AGGGCCTTGCCAGACATCGAGAACTACATGTTTGAGAATCATGATCAGCTGCGGCAGGCG
 GCCACCGAGTGCATGTGCAACATGGTGTCTCCACAAGGAGGTACAGGAAAGTTCTTGGCT
 GACGGGAATGACCGGCTGAAGCTGGTGGTGTCTGCTGCGGGGAGGATGATGATAAGGTG
 CAGAATGCGGCTGCAGGGGCTCTGGCCATGCTGACAGCAGCACACAAGAACTGTGCCTC
 AAGATGACTCAAGTGACAACCCAGTGGTTGGAGATCCTCCAGCGGCTTTGCTGCACGAC
 CAGCTGTCTGTCCAACACCGGGGCTGGTCAATGCCTACAACCTACTGGCAGCCGATGCT
 GAGCTGGCCAAGAAGCTGGTGGAGAGTGTGCTGGAGATCCTGACTGTGGTGGGCAAA
 CAGGAGCCAGATGAGAAGAAGGCAGAAGTGGTTACAGACAGCCGAGAATGTCTCATCAAG
 TGCATGGATTATGGTTTCATTAACCAGTGTCTTAG

Restriction Sites: Please inquire

ACCN: NM_173167

Insert Size:	2800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by three amino acids.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_173167.2</u> , <u>NP_775259.1</u>
RefSeq Size:	5694 bp
RefSeq ORF:	2796 bp
Locus ID:	146862
UniProt ID:	<u>Q8IWX7</u>
Cytogenetics:	17q12
Gene Summary:	<p>This gene encodes a co-chaperone required for folding and accumulation of type II myosins. The protein consists of three tetratricopeptide repeat motifs at the N-terminus that form a complex with heat shock protein 90, a central region of unknown function that is conserved in all Unc-45 proteins, and a C-terminal Unc-45/Cro1/She4 domain. The protein is expressed at high levels in striated muscle, where its muscle myosin chaperone activity is dependent on heat shock protein 90 acting as a co-chaperone. A missense mutation in this gene has been associated with cataract development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>